

IN THE CLAIMS

Please add new claims 8-11, as follows:

- 1 --8. A display device with a power interruption delay function, comprising:
2 a pulse width modulation controller for generating a pulse width modulation signal under the
3 control of a microcomputer;
4 a horizontal deflection coil for horizontally deflecting electron beams generated in said
5 display device;
6 a current amplification transformer having a primary coil and a secondary coil;
7 a field effect transistor having its gate terminal connected to one terminal of said secondary
8 coil;
9 one terminal of said primary coil being connected to an output terminal of said pulse width
10 modulation controller through a capacitor and another terminal of said primary coil being connected
11 to a ground terminal;
12 said field effect transistor having a drain terminal connected to a high voltage source and a
13 source terminal connected in common to a second terminal of said secondary coil and one side of
14 a pulse transformer;
15 said pulse transformer having a second side connected to one side of said horizontal
16 deflection coil;
17 a first diode connected between said source terminal and said drain terminal; and
18 a second diode connected between said second terminal of said secondary coil and said

19 ground terminal;

20 a H/V processor for generating a square wave pulse signal under the control of said
21 microcomputer;

22 a horizontal driver for generating a drive pulse signal in response to the square wave pulse
23 signal from said H/V processor;

24 an S-correction capacitor connected in series between said horizontal deflection coil and a
25 ground terminal, for correcting a linearity of center-to-left and right sides of a screen;

26 a horizontal output circuit for charging and discharging energy on said horizontal deflection
27 coil and said S-correction capacitor in response to an output signal from said current amplifier and
28 said drive pulse signal from said horizontal driver;

29 a H/V processor constant voltage circuit for supplying a constant voltage to said H/V
30 processor in response to an input voltage; and

31 power interruption delay charging means for gradually lowering said input voltage to said
32 H/V processor constant voltage circuit when power supplied to said display device is interrupted.

1 9. The display device as set forth in claim 8, wherein said power interruption delay
2 charging means includes:

3 a polarity capacitor for performing a charging operation when power is supplied to said
4 display device and a discharging operation when the power supplied to said display device is
5 interrupted; and

6 a diode connected to said polarity capacitor, for preventing a voltage charged on said polarity

7 capacitor from being discharged to a power supply circuit when the power supplied to the display
8 device is interrupted.

1 10. The display device as set forth in claim 8, wherein said horizontal output circuit
2 comprises a horizontal output transistor having a collector terminal connected in common to said
3 second side of said pulse transformer and said one side of said horizontal deflection coil, an emitter
4 terminal connected to said S-correction capacitor and said ground terminal, and a base terminal
5 connected to an output terminal of said horizontal driver for receiving said drive pulse signal.
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1 11. The display device as set forth in claim 10, wherein said horizontal driver comprises:
2 a second field effect transistor having a gate terminal connected to receive said square wave
3 pulse signal from said H/V processor, a source terminal connected to said ground terminal, and a
4 drain terminal;
5 a horizontal drive transformer having a primary coil and a secondary coil, said primary coil
6 having one terminal connected to a voltage source through a resistor and a second terminal
7 connected to said drain terminal of said second field effect transistor; and
8 said secondary coil of said horizontal drive transformer having one side connected to said
9 base terminal of said horizontal output transistor and a second side connected to said ground
10 terminal.--